

Title (en)
Turbine generating apparatus

Title (de)
Turbinen Generator Vorrichtung

Title (fr)
Appareil de génération à turbine

Publication
EP 1343247 A3 20050202 (EN)

Application
EP 03003600 A 20030217

Priority
JP 2002040639 A 20020218

Abstract (en)
[origin: EP1343247A2] A turbine generating apparatus includes a control unit which controls the turbine generating apparatus as follows. During a system connection running mode, a fuel is fed to the gas turbine at a fuel flow rate corresponding to a preset load. The converter prepares a pseudo-system in which a frequency conforms to a set rotational speed of the gas turbine at the preset load, and converts an output of the generator to a direct current in a state that a number of revolutions of the gas turbine is specified by operating the generator synchronously with the pseudo-system. A power to be taken out is controlled depending on a magnitude of a turbine output. The inverter converts a DC voltage output from the converter to an AC voltage by a pulse width modulation at a system voltage and a system frequency so as to keep the DC voltage output from the converter at a predetermined voltage. <IMAGE>

IPC 1-7
H02P 9/04; H02P 9/08

IPC 8 full level
F01D 17/00 (2006.01); **F02C 9/28** (2006.01); **H02M 7/48** (2007.01); **H02P 9/04** (2006.01); **H02P 9/08** (2006.01); **H02P 9/48** (2006.01)

CPC (source: EP US)
H02P 9/04 (2013.01 - EP US)

Citation (search report)

- [YD] EP 0963035 A2 19991208 - CAPSTONE TURBINE CORP [US]
- [Y] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 08 30 June 1999 (1999-06-30)
- [Y] GATTI E ET AL: "Digital control of load commutated inverters for starting equipment of gas turbine power stations", FIFTH EUROPEAN CONFERENCE ON POWER ELECTRONICS AND APPLICATIONS (CONF. PUBL. NO.377) IEE LONDON, UK, 1993, pages 250 - 255 vol.8, XP002309233
- [A] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 14 22 December 1999 (1999-12-22)

Cited by
EP2644839A1; EP2374192A4; US8916985B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)
EP 1343247 A2 20030910; EP 1343247 A3 20050202; EP 1343247 B1 20070523; AT E363149 T1 20070615; DE 60313909 D1 20070705; DE 60313909 T2 20080117; JP 2003244996 A 20030829; JP 3840416 B2 20061101; US 2004066044 A1 20040408; US 6882060 B2 20050419

DOCDB simple family (application)
EP 03003600 A 20030217; AT 03003600 T 20030217; DE 60313909 T 20030217; JP 2002040639 A 20020218; US 36784603 A 20030219